



PTO/SB/08B (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/616,637
Filing Date	July 10, 2003
First Named Inventor	Antonio Nucci, et al.
Art Unit	2600-2609-2619 K.S.
Examiner Name	
Attorney Docket Number	2315/SPRI.104359

Sheet	1	of	2
-------	---	----	---

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/KS/		J. Armitage, O. Crochat, J. Y. Le Boudec "Design of a Survivable WDM Photonic Network", in Proc. INFOCOM '97, pp.244-252, April 1997.	
		O. Crochat, J.Y.Le Boudec "Design Protection for WDM Optical Networks", IEEE Journal on Selected Areas in Communication, Vol. 18, n.7, pp.1158-1165, September 1998.	
		O. Crochat, J.Y.Le Boudec, O.Gerstel "Protection Interoperability for WDM Optical Networks", IEEE Transaction on Networking, Vol. 8, n.3, pp.384-395, June 2000.	
		E. Modiano, A. Narula-Tam "Survivable routing of logical topologies in WDM networks", in Proc. INFOCOM '01 Vol.1, pp. 348-357, Anchorage, Alaska, April 2001.	
		F. Glover, E. Taillard and D. De Werra "A User's Guide to Tabu Search", Annals of Operations Research, Vol. 41, pp.3-28, 1993.	
		V. Kumar "Approximating arc circular colouring and bandwidth allocation in all-optical ring networks", First International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX'98), 1998.	
		A. Nucci, B. Sanso, T. G. Crainic, E. Leonardi, M. Marsan "Design of Fault-Tolerant Logical Topologies in Wavelength-Routed Optical IP Networks", IEEE Globecom Proceedings, November, 2001.	
↓		B. Beauquier, J-C. Bermond, L. Gargano, P. Hell, S. Perennes and U. Vaccar "Graph problems arising from wavelength-routing in all-optical networks", 2nd IEEE Workshop on Optics and Computer Science, part of IPP'97, Genova, Switzerland, April 1997. IEEE Press.	
/KS/		V. Auletta, I. Caragiannis and P. Persiano "Randomized path coloring on binary trees", 3rd International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX'00), Vol. 1913, pp.60-71, Springer-Verlag, 2000.	

Examiner Signature	/Ketan Soni/	Date Considered	04/05/2007
--------------------	--------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/616,637
Filing Date	July 10, 2003
First Named Inventor	Antonio Nucci, et al.
Art Unit	2639-2609-2619 K.S.
Examiner Name	
Attorney Docket Number	2315/SPRI.104359

Sheet 2 of 2

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/KS/		T. Erlebach, K. Jansen, C. Kakalamanis, M. Mihail and P. Persiano "Optimal wavelength routing on directed fiber trees", Theoretical Computer Science, Vol. 221, n.1-2, pp.119-137, 1999.	
		D. S. Hochbaum editor "Approximation Algorithms for NP-Hard Problems", PWS Publishing Company, 1997.	
		Eric J. Harder, Sang-Kyu Lee and Hyeon-Ah Choi "On Wavelength Assignment in WDM Optical Networks", Proceedings of the 4th International Conference on Massively Parallel Processing Using Optical Interconnections (MPPOI'97), 1997.	
		A. Nucci, N. Taft, P. Tmran, H. Zang and C. Diot "Increasing the Link Utilization in IP over WDM Networks" Opticom 2002. June 2002.	
		G. Iannaccone, C. Chuah, R. Mortier, S. Bhattacharyya and C. Diot "Analysis of Link Failures in a Large IP Backbone" in Proc. 2nd ACM Sigcomm Internet Measurement Workshop (IMW), November, 2002.	
/KS/		K. Papaglannaki, S. Moon, C. Fraleigh, P. Thiran, F. Tobagi and C. Diot "Analysis of Measured Single-Hop Delay from an Operational Backbone Network" in Proc. IEEE Infocom, New York, June 2002.	

Examiner Signature	/Ketan Soni/	Date Considered	04/05/2007
--------------------	--------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet 1

0

Application Number

**10/616,637**

**Filing Date**

**July 10, 2003**

**First Named Inventor**

Antonio Nucci, et al.

**Art Unit**

~~2609~~ 2619 K.S.

**Examiner Name**

Attorney Docket Number

**2315/SPRI.104359**

## NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature	/Ketan Soni/	Date Considered	04/03/2007
-----------------------	--------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.58. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

/KS/  
04/25/2007 Applicant(s): Antonio Nucci, et al. )  
Serial No. 10/616,637 )  
Filed: July 10,, 2003 )  
Title: METHOD AND SYSTEM FOR )  
IDENTIFYING OPTIMAL MAPPING )  
IN A NETWORK )

Attorney Docket No. 2315/SPRI.104359  
Art Unit:

CERTIFICATE OF MAILING 37 C.F.R. 1.8	
I hereby certify that this correspondence is being deposited with the U.S. Postal Service, postage prepaid, as First Class Mail in an envelope addressed to: Mail Stop DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:	
11/3/03 Date	Nancy Norton Signature

INFORMATION DISCLOSURE STATEMENT CORRECTION

Please

also

see

IDS-10/

19/03

Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

/KS/

04/25/2007

The article by F. Giroire, A. Nucci, N. Taft, C. Diot, Increasing the Robustness of

IP Backbones in the Absence of Optical Level Protection, Sprint Advanced Technology Labs,

Burlingame, CA was mistakenly submitted as prior art on October 14, 2003. Applicants submit

that the article should not have been submitted as prior art and that the article was not published.

Furthermore, the article should not be considered as prior art because it does not list a  
publication date. Applicants apologize for any inconvenience.

Respectfully submitted,

Jean M. Dickman  
Reg. No. 48,538

JMD:nlm  
SHOOK, HARDY & BACON L.L.P.  
One Kansas City Place  
1200 Main Street  
Kansas City, Missouri 64105-2118  
Tel: 816/474-6550  
Fax: 816/421-5547

Examiner:

/Ketan Soni/

04/25/2007